EPA

SITE INSPECTION REPORT

X | V |

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET (or other identifier)		
FORMERLY - HOOVER BALL AND BEARING SALINE DIE CASTING DIVISION	232 MONROE ST.		
C. CITY	D. STATE	E. ZIP CODE	F. COUNTY NAME
SALINE	MI.	48176	WASHTENAW

G. SITE OPERATOR INFORMATION

1. NAME	2. TELEPHONE NUMBER		
SALINE DIE CASTING DIVISION	313/429-9411		
3. STREET	4. CITY	5. STATE	6. ZIP CODE
232 MONROE ST.	SALINE	MI.	48176

H. REALTY OWNER INFORMATION (if different from operator of site)

1. NAME	2. TELEPHONE NUMBER	
HOOVER UNIVERSAL	313/665-1500	
3. CITY	4. STATE	5. ZIP CODE
ANN ARBOR	MI.	48104

I. SITE DESCRIPTION

ELECTROPLATING OPERATION

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.).

B. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
THOMAS LENTZEN - FIT	312/663-9415	5/27/81

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME	2. TITLE	
THOMAS LENTZEN	GEOLOGIST	
3. ORGANIZATION		4. TELEPHONE NO. (area code)
ECOLOGY & ENVIRONMENT - FIT		312/663-9415

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
EILEEN BLACK	ECOLOGY & ENVIRONMENT - FIT	312/663-9415
JOHN CEROCKE	ECOLOGY & ENVIRONMENT - FIT	312/663-9415

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
WILLIAM TISCHLER	TECHNICAL DIRECTOR 313/429-9411	232 MONROE ST. SALINE MI.

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GE
SALINE DIE CASTING DIVISION	313/429-9411	232 MONROE ST. SALINE MI. 48176	HEAVY METAL S

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRA
MISTER RUBBISH		3685 STONE SCHOOL ROAD ANN ARBOR MI 48104	DEWATER HEAVY METAL S
ENVIRONMENTAL WASTE CONTROL		UNK	DEWATER HEAVY METAL
RAY MOLDER	313/241-6700	UNK	DEWATER HEAVY METAL

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOS

1. NAME	2. TELEPHONE NO.	3. ADDRESS
WAYNE DISPOSAL #2		I-94 SERVICE ROAD AND DENTON ROAD VAN BUREN TOWNSHIP WAYNE COUNTY MI.
WOODLAND MEADOWS		4538 HANNAN ROAD CANTON TOWNSHIP, WAYNE COUNTY MI.

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
5/21/81	1000	☒ 1. PERMISSION ☐ 2. WARRANT

J. WEATHER (describe)

SUNNY, HOT LOWER 80S SLIGHT BREEZE

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contra etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. RE AVA
a. GROUNDWATER	X	NEIC	EARI AUG
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify) DISCHARGE	X	NEIC	EARI AUG

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
NO FIELD MEASUREMENTS TAKEN		

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: [X] a. GROUND [X] b. AERIAL — TAKEN BY THE PLANT
2. PHOTOS IN CUSTODY OF: US EPA - DPO

D. SITE MAPPED?

[X] YES. SPECIFY LOCATION OF MAPS: U.S. EPA - FILE

E. COORDINATES

1. LATITUDE (deg.-min.-sec.):
2. LONGITUDE (deg.-min.-sec.):

V. SITE INFORMATION

A. SITE STATUS

[X] 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

[ ] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 3. OTHER (specify): (Those sites that include such incidents like "midnight dum where no regular or continuing use of the site for waste disp has occurred.)

B. IS GENERATOR ON SITE?

[ ] 1. NO [X] 2. YES (specify generator's four-digit SIC Code):

C. AREA OF SITE (in acres)

≈ 10 ACRES

D. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES (specify): MANUFACTURING PLANT

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

'X'	A. TRANSPORTER	'X'	B. STORER	'X'	C. TREATER	'X'	D. DISPOSE
	1. RAIL		1. PILE	X	1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUN
	5. PIPELINE		5. TANK, BELOW GROUND	X	5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPI
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND I
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Ir which Supplemental Reports you have filled out and attached to this for..

[ ] 1. STORAGE [ ] 2. INCINERATION [ ] 3. LANDFILL [X] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECL

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1. LIQUID [ ] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[X] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [ ] 4. HIGHLY VOLATILE

[X] 5. TOXIC [ ] 6. REACTIVE [ ] 7. INERT [ ] 8. FLAMMABLE

[ ] 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

RECORDS ARE AVAILABLE, MANIFESTS AND INVENTORIES

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2. Estimate the amount (specify unit of measure) of waste by category, mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. O
AMOUNT 20	AMOUNT 15,000	AMOUNT	AMOUNT UNK	AMOUNT	AMOUNT
UNIT OF MEASURE CUBIC YDS / WK	UNIT OF MEASURE GALLONS / WK	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF
X (1) PAINT, PIGMENTS	X (1) OILY WASTES	X (1) HALOGENATED SOLVENTS	X (1) ACIDS	X (1) FLYASH	X (1) LA PHA
X (2) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGNTD. SOLVENTS	X (2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOS
(3) POTW		(3) OTHER (specify):	X (3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RAD
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUN
(5) OTHER (specify):			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTH
			X (6) CYANIDE	(6) OTHER (specify):	
			(7) PHENOLS		
			(8) HALOGENS		
			X (9) PCB		
			(10) METALS		
			(11) OTHER (specify):		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X') a. SOLID	b. LIQ.	c. VAPOR	3. TOXICITY (mark 'X') a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. AMOUNT
CHROMIC ACID		X		X					32,000
SULFURIC ACID		X		X					UNK
CYANIDE WASTES		X		X					40,000
CAUSTIC SODA		X			X				UNK

VII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Descr hazard in the space provided.

X A. HUMAN HEALTH HAZARDS

- RESPIRATORY HAZARD TO WORKERS EXISTS

☐ B. NON-WORKER INJURY/EXPOSURE

- NO INJURIES REPORTED

☐ C. WORKER INJURY/EXPOSURE

- NO INJURIES REPORTED

☒ D. CONTAMINATION OF WATER SUPPLY

- POTENTIAL BASED ON UNLINED SETTLING PONDS AND A SLUDGE POND. GROUNDWATER USED AS POTABLE WATER

☒ E. CONTAMINATION OF FOOD CHAIN

- UNKNOWN AT PRESENT

☒ F. CONTAMINATION OF GROUND WATER

- POTENTIAL EXIST DUE TO UNLINED SETTLING PONDS AS WELL AS AN UNLINED SLUDGE POND

☒ G. CONTAMINATION OF SURFACE WATER

- SETTLING PONDS AND THE SLUDGE POND LIE WITHIN THE FLOOD PLAIN OF THE SALINE RIVER. SITE ALSO DICHARGES TREATED METAL PLATING PROCESS WASTEWATER (95%) AND NON-CONTACT COOLING WATER (5%) TO SALINE RIVER - SITE HAS AN NPDES PERMIT

Continue On Reve

☐ H. DAMAGE TO FLORA/FAUNA

- NOT NOTICED BY ON-SITE INSPECTION TEAM

☒ I. FISH KILL

- ACCORDING TO BARRY JOHNSON FROM THE WASHTENAW HEALTH DEPARTMENT, FISH KILLS DOWNSTREAM FROM THE PLANT HAVE OCCURRED. HE WAS NOT SURE WHEN THIS HAPPENED

☐ J. CONTAMINATION OF AIR

- NOT NOTICED BY THE ON-SITE TEAM

☒ K. NOTICEABLE ODORS

- SLIGHT ODOR NOTICED DURING ON-SITE INSPECTION OF THE PLANT

☐ L. CONTAMINATION OF SOIL

- NOT NOTICED BY THE ON-SITE TEAM

☐ M. PROPERTY DAMAGE

- NA

☒ N. FIRE OR EXPLOSION

- NONE REPORTED, POTENTIAL EXIST DUE TO. WIDE VARIETY OF CHEMICALS

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

- NOT NOTICED BY THE ON-SITE TEAM

☐ P. SEWER, STORM DRAIN PROBLEMS

- NOT NOTICED BY THE ON-SITE INSPECTION TEAM POTENTIAL EXISTS

☒ Q. EROSION PROBLEMS

- POTENTIAL FOR THE UNUSED SLUDGE POND TO ERODE

☒ R. INADEQUATE SECURITY

- FENCE ENCLOSES SITE, NO GUARD ON DUTY
- UNUSED SLUDGE POND HAS NO SECURITY THOUGH ACCESS TO THIS AREA UNLESS BY FOOT IS DIFFICULT

☒ S. INCOMPATIBLE WASTES

- UNKNOWN, BUT POTENTIAL EXISTS DUE TO WIDE VARIETY OF CHEMICALS

VIII. HAZARD DESCRIPTION (continu)

☐ T. MIDNIGHT DUMPING

- NA

☒ U. OTHER (specify):

- SLUDGE AT ONE TIME WAS DISPOSED DIRECTLY TO THEIR SLUDGE POND. THIS STOPED ≈ 2 YRS. AGO
- ACCORDING TO A HEALTH DEPARTMENT OFFICIAL LEACHATE FROM THE SLUDGE POND IS GENERATED. THIS WAS NOT NOTICED BY ON-SITE TEAM
- THREE DRINKING WATER WELLS ON PROPERTY. LOCATED LESS THAN 500 FT. AWAY FROM SETTLING PONDS CONTAMINATION TO THESE WELLS IS A POSSIBILTY

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	GREATER THAN 2000	200 - 500	350	≈ 1/2 mi
2. IN COMMERCIAL OR INDUSTRIAL AREAS	←	NA	→	
3. IN PUBLICLY TRAVELLED AREAS	←	UNKNOWN	→	
4. PUBLIC USE AREAS (parks, schools, etc.)	50-100	10	0	≈ 1/2 mi

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit)	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
≈ 5-10 FT.		POTABLE
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure)**	**F. DIRECTION TO DRINKING WATER SUPP**
UNKNOWN	UNKNOWN IF SALINE HAS WELL AREA	UNK

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS ☒ 2. COMMUNITY (specify town): > 15 CONNECTIONS UNK. IF SALINE HAS WELL FIELD

☐ 3. SURFACE WATER ☒ 4. WELL

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X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')
PRIVATE	83	ON PROPERTY OF SITE	X
PRIVATE	83	ON PROPERTY OF SITE	X
PRIVATE	83	ON PROPERTY OF SITE	X

I. RECEIVING WATER

1. NAME: SALINE RIVER

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

X	A. OVERBURDEN	X	B. BEDROCK (specify below)	X	C. OTHER (specify below)
X	1. SAND				
X	2. CLAY		UNKNOWN		
X	3. GRAVEL				

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☒ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

H. DISCHARGE AREA

☒ 1. YES ☐ 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE: 5-10%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: SOUTH - GOOD CONDITION

J. OTHER GEOLOGICAL DATA

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XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X') 1. YES	2. NO	3. UNK
STATE	MDNR	MIG-000000265					X
NPDES	MDNR	MI0003239	1/24/75	9/30/79		X	

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☒ NONE ☐ YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition *(Section II)* information on the first page of this form.

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
- SETTLING PONDS
- SLUDGE POND (DRY)

2. STABILITY/CONDITION OF EMBANKMENTS
- ADEQUATE FOR THE SETTLING PONDS
- POOR FOR THE SLUDGE POND

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☒ YES ☐ NO POTENTIAL FOR EROSION SPECIFICALLY TO THE SLUDGE POND

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☐ YES ☒ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☒ NO

7b. FINDINGS
—

8. SOIL STRUCTURE AND SUBSTRUCTURE
SANDY LOAM - MODERATE PERMEABILITY
SAND AND GRAVEL DEPOSITS TO ≈ 15 FEET

9. MONITORING WELLS
☒ YES ☐ NO

10. LENGTH, WIDTH, AND DEPTH
LENGTH UNK WIDTH UNK DEPTH ≈ 4-6 FEET

11. CALCULATED VOLUMETRIC CAPACITY
≈ 59,000 GALLONS

12. PERCENT OF CAPACITY REMAINING
≈ 7,500 GALLONS

13. ESTIMATE FREEBOARD
LESS THAN ONE FOOT FOR THE SETTLING PONDS - SLUDGE POND IS DRY

14. SOLIDS DEPOSITION
☐ YES ☐ NO UNKNOWN

15. DREDGING DISPOSAL METHOD
UNKNOWN

16. OTHER EQUIPMENT

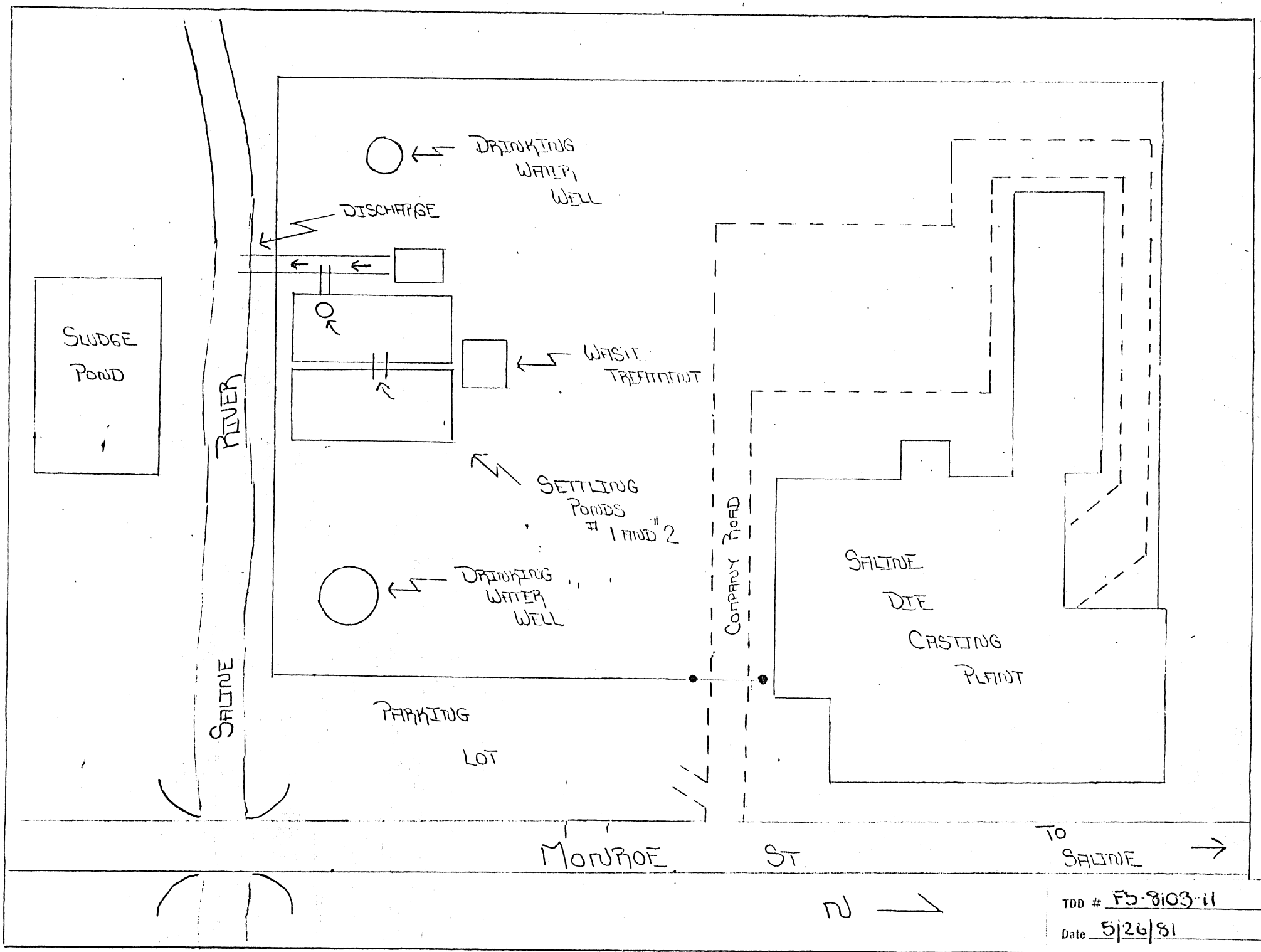

FIGURE 5

TDD # F5-8103-11

Date 5/26/81

Prepared By LENTZEN

ECOLOGY AND ENVIRONMENT, INC.